

Serial No. 09/453,772

Clean Copy of Amended Specification Paragraph on Page 3, Lines 1-20:

F2  
To this end, according to a first aspect of the present invention, there is provided a claw pole type actuator of a single-phase structure, comprising: a stator yoke composed of a pair of substantially circular planar yokes formed of a soft magnetic material, a number N of polar teeth which axially protrude from inner peripheral edges of the respective planar yokes and which are disposed to face each other, extending in an axial direction, and a cylindrical ring provided on outer peripheral edges of one of the planar yokes; an armature being constituted by installing a coil formed by winding a magnet wire in a coil receiving section shaped like an annular recess formed by the planar yokes, the polar teeth, and the cylindrical ring of the stator yoke; a rotor being concentrically disposed within the stator yoke and being adapted for repetitive rotational movement within a set angular range in response to energization of said coil, said angular range being less than  $360^\circ$  and having its endpoints defined by a first angular position and a second angular position, and wherein said rotor is further adapted to be held in either said first angular position or said second angular position by a magnetic detent torque when said coil is deenergized, said rotor having a magnet, said magnet having a number N of magnetic poles; and a stator assembly which has flanges with bearings provided with a magnet for a magnetic field composed of a permanent magnet being installed to face the polar teeth of the stator with minute gaps provided therebetween; wherein the number of the polar teeth equals the number N of rotor magnetic poles (N is 2 or 4).